

Catalog Number: CM00765

产品信息

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CM00765

CAS号:
59-14-3

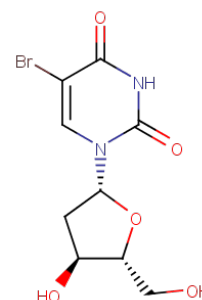
分子式:
 $C_9H_{11}BrN_2O_5$

主要靶点:
Others|Nucleoside
Antimetabolite/Analog

主要通路:
细胞周期|DNA 损伤和修复

分子量:
307.1

溶解度:
DMSO:50 mg/mL (162.81
mM);H₂O:15.4 mg/mL (50
mM);Ethanol:2 mg/mL (6.5 mM)



体外活性

在RG2大鼠神经胶质瘤细胞中，5-BrdU引起癌细胞系和癌干细胞群体扩展的逐渐抑制，且此抑制作用随剂量增加而增强。在H9细胞和BJ成纤维细胞中，5-BrdU改变了细胞周期分布。[1] BrdU稳定集成到DNA中，因此可用于评估细胞增殖和其他细胞过程。[2]

体内活性

在大鼠胶质瘤RG2肿瘤模型中，Bromodeoxyuridine（300 mg/kg，i.p.或0.8 mg/ml，p.o.）显著减缓肿瘤进展。[1]

细胞实验

Cultures are initially plated at 2000 cells/cm² and are quantified with a Z2 Coulter Counter. RG2 rat glioma cells are treated once with 0, 1, 10, or 50 μ M BrdU for 24 hours, and cumulative growth curves were obtained over 18 days. Control and treated cells are quantified and replated at equal densities on days 5, 12, and 18 after treatment.(Only for Reference)

储存

keep away from direct sunlight | Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.